SIEMENS

ARCADIS

SP

Software

System

PC M450 Recovery (VC10A)

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General information

Passwords

Required passwords are not included in this document. You will find them in the CS Knowledge Base on the intranet or you can obtain them from the relevant USC or RSC.

Service, shutdown, hibernation

⚠CAUTION

Switching the system off via hibernation after service or before handover to the customer is not sufficient.

Various error messages can appear after the next system boot and configuration changes are not saved.

➪ **To ensure that the configuration changes are saved, a proper shutdown must be performed. Shut down the system via the upper monitor menu bar <Options>-<End Software Session>-<Shut Down> and then press the "off" key on the monitor trolley.**

Handover to the customer

NOTE

Before the system is handed over to the customer, the system must be shut down via the menu bar <Options>-<End Software Session>-<Shut Down>.

Switching the system off via hibernation (on/off button on the monitor trolley) is not sufficient.

Safety information

When performing the work steps and checks, the general safety information for medical products must be observed.

Prerequisites

General

A “recovery” generates an image of the current M450 PC (software). This generated image includes of course performed SW-updates, installed printer, specific settings and so on.

➪ The main system software and configuration are not part of the “recovery”.

Creating a recovery disk may be helpful if one of the operations fails, because they cannot be saved using an incremental backup:

➪ Software updates (Bug fix)

➪ Printer installation (software part)

➪ Country specific settings (e. g. keyboard settings, time zone)

System condition

- ARCADIS systems are delivered from factory with PC M450:
  - ➪ Systems delivered with VC10A are equipped with a M450 PC
- The patient database must be empty.

Required CD‘s / DVD‘s

- COBR CD VS11A
- BIOS CD VC01A
- For recovery creation: Empty DVD
- For recovery import: Generated recovery DVD (e. g. from factory)
  - ➪ to get a fresh system (fully configured) with an empty patient data base.

NOTE	**For the recovery creation a “+” and “-” DVD is compatible.** **For writing under syngo a “-”DVD is required.** **Do not use a DVD RW.**

- For incremental backup: Empty CD

NOTE

An incremental restore is only necessary if changes in the system software have been made since creating the last recovery DVD.

System software changes may have been performed in the following:

- **"SW-Settings02" (includes network settings and licenses)**
- **"ASPIA Settings"**
- **"Exam Sets"**
- **"Security-Settings" (if HIPAA is configured)**
- **"3D Settings" (only Orbic 3D)**
- **Country specific settings (syngo)**

  ➪ **Incremental backup not possible!**
- **Software updates or installations e.g. printer**

  ➪ **Incremental backup not possible!**

Required time

- Creating recovery DVD from PC: 40 minutes
- Recovery restore to PC: 20 minutes

Software Version

- VC10A with M450 PC

Functional test

- Check the functional status of the system.

  ➪ The system should be in an error-free (software) condition.

Patient images - Recovery creation

Patient images must be removed from the system prior to the recovery procedure.

- If required, save the patient images.
  - Send the patient images to the archive, if available
  - or burn them to CD/DVD
  - or save them to USB hard drive

  ➪ Do not delete the "Service Patient".

NOTE	**The "Service Patient" is only visible in the patient browser as long the service application is running.**

Patient images - Recovery restore

- Ensure that all patients are archived before starting the recovery restore sequence.
  - ➪ The current system data and patient data will be overwritten.

Password list

- The knowledge base password list must be available.

Entering and saving data

Service key

- Not required for a recovery creation or a recovery

BIOS Password

- Record the BIOS password.....
  - ➪ This is listed in the knowledge base password list.

Computer name

- Not required for a recovery creation or a recovery restore.

Administrator logon

- Not required for a recovery creation or a recovery restore.

HIPAA logon (only if HIPAA is configured)

NOTE	**If the customer changed the HIPPA logon passwords since the last recovery creation, contact the responsible system administrator because these recycled passwords are valid again after a recovery restore.**

Backup procedure and SW installation procedure

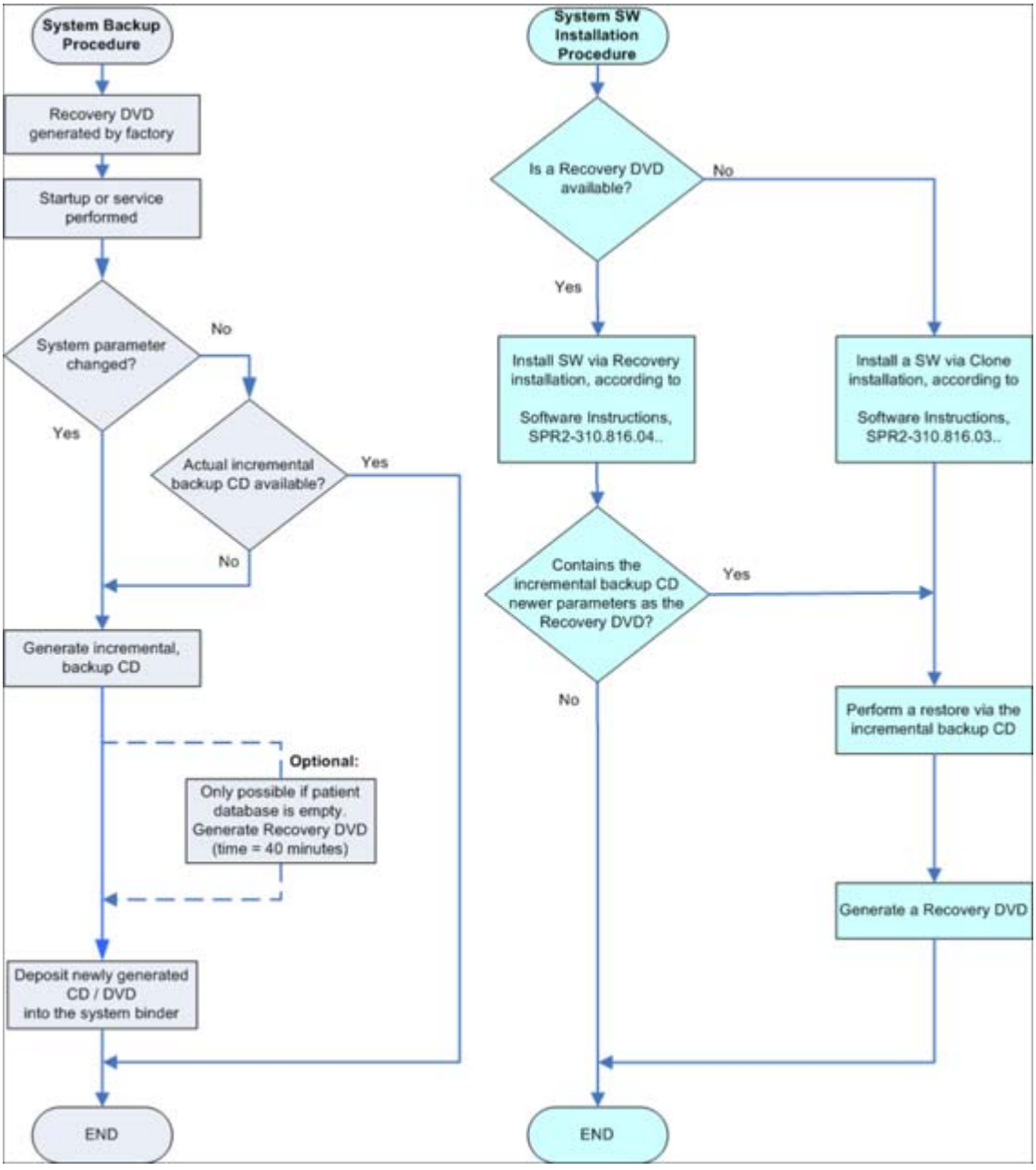
System Backup Procedure
Recovery DVD generated by factory
Startup or service performed
System parameter changed?
No
Yes
Actual incremental backup CD available?
Yes
No
Generate incremental, backup CD
Optional:
Only possible if patient database is empty. Generate Recovery DVD (time = 40 minutes)
Deposit newly generated CD / DVD into the system binder
END
System SW Installation Procedure
Is a Recovery DVD available?
No
Yes
Install SW via Recovery installation, according to Software Instructions, SPR2-310.816.04..
Install a SW via Clone installation, according to Software Instructions, SPR2-310.816.03..
Contains the incremental backup CD newer parameters as the Recovery DVD?
Yes
No
Perform a restore via the incremental backup CD
Generate a Recovery DVD
END

Fig. 1: Overview Backup procedure and SW installation

Recovery DVD creation (backup the system)

Prerequisites

- The system must be switched on.
- The patient browser contains no patients.
- Shut down the system via the menu bar <Options>-<End Software Session>-<Shut-down> .
- Immediately after this, switch off the system by pressing the power off button on the monitor trolley.

  ➪ Wait until the shutdown is finished.

NOTE	**A shutdown via “Hibernation” is not sufficient prior to a “Recovery creation”.**

Recovery creation

1. Switch on the system using the monitor trolley power on button.
2. As soon as text is displayed on the left monitor, press the **“F2”** key on the keyboard.

   ➪ The BIOS login window is displayed.

Fig. 2: Bios_PW

3. Enter the BIOS password and confirm it by pressing the “**Enter**” key.
4. Insert the “COBR VS11A” CD into the DVD drive.
5. Under <Main> select with cursor keys <Boot Options> and press the “**Enter**” key.
6. Select with cursor keys <Boot Sequence> and press the “**Enter**” key.
7. Using the cursor keys, select the <CD-ROM Drive>.

NOTE

As long the operating system is not running, the US keyboard layout is active. Use the layout diagram illustrated here: (Fig. 3 / p. 10) to activate the "+" key function.

Fig. 3: Keyboard US layout

8. Move the "CD-ROM Drive to the upper position by pressing the shift key (2/Fig. 3 / p. 10) and the +/= key (1/Fig. 3 / p. 10) together (selects "**+**" key function) on the keyboard.

   ➪ The "CD-ROM Drive" is now in the first position under <Boot Sequence>.

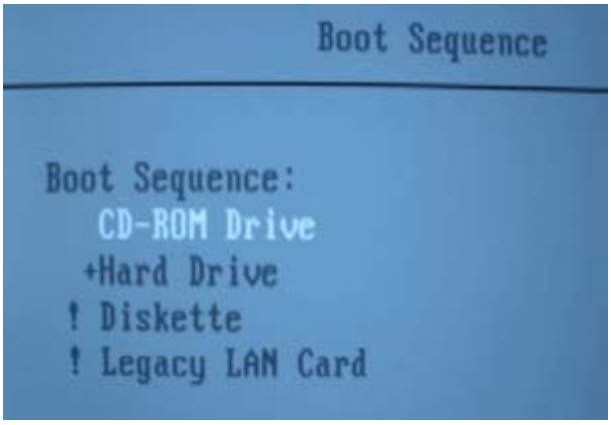

Fig. 4: Boot sequence

9. Press the "**ESC**" key to leave the <Boot Sequence> menu.
10. Press the "**ESC**" key to leave the <Boot Options> menu.
11. Press the "**ESC**" key to select <Exit>.
12. Confirm the text line <Save Changes & Exit> by pressing the "**Enter**" key.

    ➪ The message appears: "Save configuration changes and exit now?"

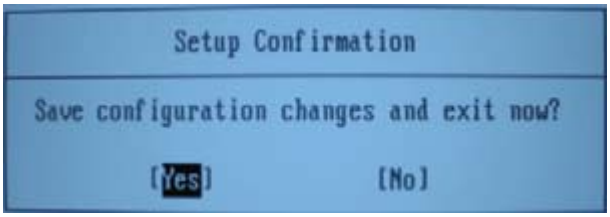

Fig. 5: Setup confirmation

13. Confirm the <Yes> button by pressing the “**Enter**” key.

➪ The message “Windows is loading files...” appears soon thereafter.

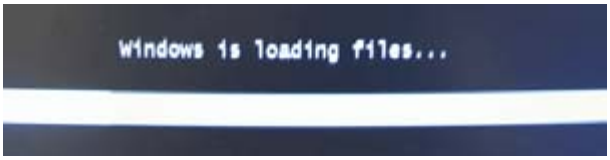

Fig. 6: Loading files

➪ Some scripts are running.

➪ A window “Backup/Restore” appears soon thereafter.

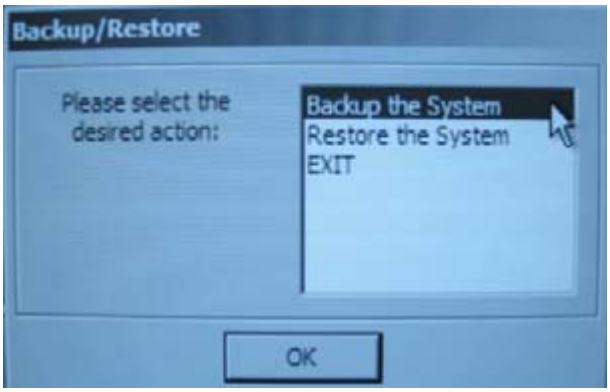

Fig. 7: Back/Restore

14. Click <Backup the System> and <OK>.

➪ The DVD drive opens after about 3 minutes.

15. Remove the “COBR VS11A” CD and insert an empty DVD -R into the drive.

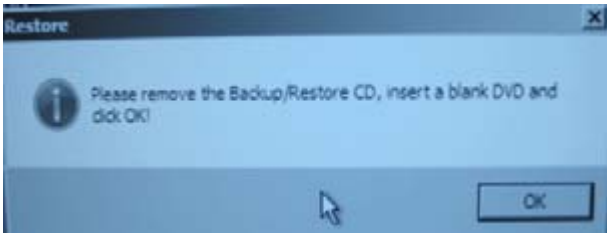

Fig. 8: Insert blank DVD

16. Close the DVD drive and click <OK>.

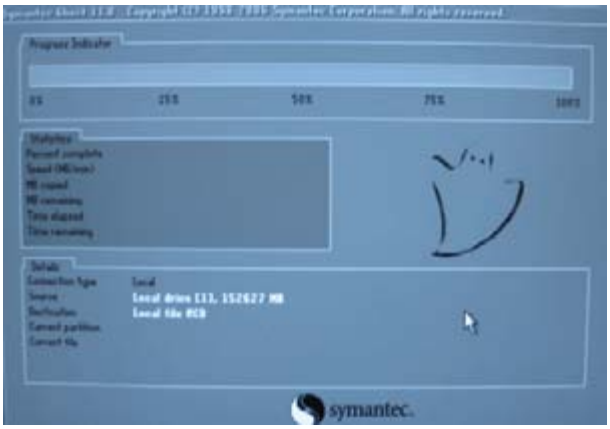

Fig. 9: Ghost progress

- ➪ The backup to DVD starts and takes about 45 minutes.
- ➪ The displayed “Time remaining” is not correct.
- ➪ After the backup, a message appears that the backup is finished.

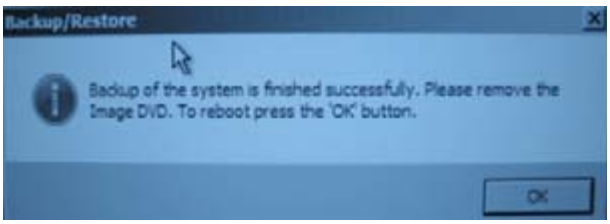
Backup/Restore
Backup of the system is finished successfully. Please remove the Image DVD. To reboot press the 'OK' button.
OK

Fig. 10: Remove DVD

17. As soon the backup is finished, remove the backup DVD and confirm the message “Backup/Restore” with <OK>.
    - ➪ The system restarts.
18. As soon as text is displayed on the left monitor, press the **“F2”** key on the keyboard.
    - ➪ The BIOS login window appears.
    - ➪ Change in the BIOS the boot sequence to previously setting (“hard drive” is first) as described at the beginning of the system backup procedure.
    - ➪ After the next boot, the system backup is completed and the system is ready for operation.

Recovery DVD restore (restoring the system)

Prerequisites

1. Ensure that a (incremental) backup CD of the current system configuration is on hand if changes have been made since the last recovery creation.
2. Ensure that all patients are archived before starting the restore sequence.
   ➪ The current system data and patient data will be overwritten during a system restore.
3. Shut down the system if it is switched on.
   ➪ Wait until the shutdown is finished.

Recovery DVD restore

1. Switch on the system using the monitor trolley power on button.
2. As soon as text is displayed on the left monitor, press the **"F2"** key on the keyboard.
   ➪ The BIOS login window is displayed.

Fig. 11: Bios_PW

3. Enter the BIOS password and confirm it by pressing the "**Enter**" key.
4. Insert the "BIOS VC01A" CD into the DVD drive.
5. Press the "**F9**" key on the keyboard.
   ➪ "Load default configuration now?" is displayed.

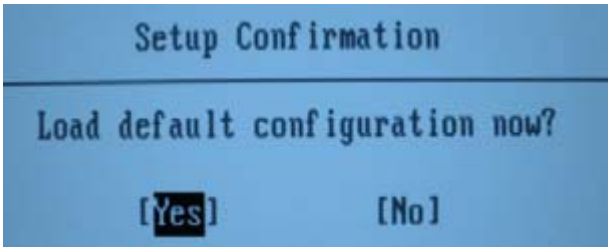

Fig. 12: Load default

6. Confirm the "Yes" button by pressing the "**Enter**" key .
7. Select <Advanced> with the cursor keys and press the "**Enter**" key.
8. Select <USB BIOS Supported Devices> with the cursor keys and press the "**Enter**" key.
9. Change, with cursor keys, the setting from "Auto" to "Keyboard/Mouse" and press the "**Enter**" key.
   ➪ "**Keyboard/Mouse**" is displayed on the screen.
10. Press the "**ESC**" key to leave the "USB BIOS Supported Devices" menu.

11. Press the “**ESC**” key to leave the “Peripheral Configuration” and select “Exit”.
12. Confirm the text line “Save Changes & Exit” by pressing the “**Enter**” key.
    - ➪ The message appears: “Save configuration changes and exit now?”

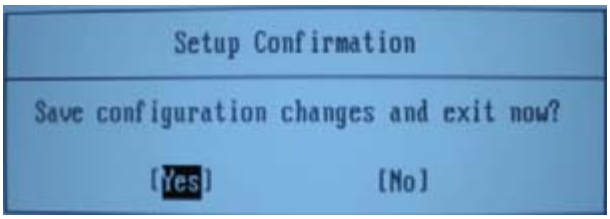

Fig. 13: Setup confirmation

13. Confirm the <Yes> button by pressing the “**Enter**” key.
    - ➪ The system boots and installs the BIOS settings. This takes a while.
    - ➪ The message appears: “System ready for software installation”

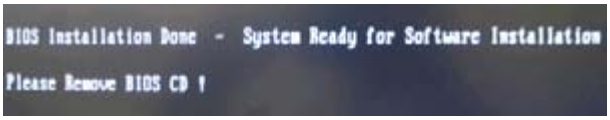

Fig. 14: Remove Bios CD

    - ➪ The DVD drive opens.
14. Remove the “BIOS VC01A” CD and insert the “COBR VS11A” CD.
15. Perform a restart of the PC by pressing the keys (Ctrl) + (Alt) + (DEL) on the keyboard.
    - ➪ The message “Windows is loading files...” appears soon thereafter.

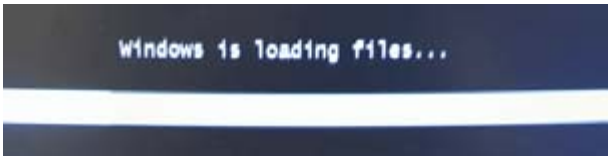

Fig. 15: Loading files

    - ➪ Some scripts are running.
    - ➪ A window “Backup/Restore” appears soon thereafter.

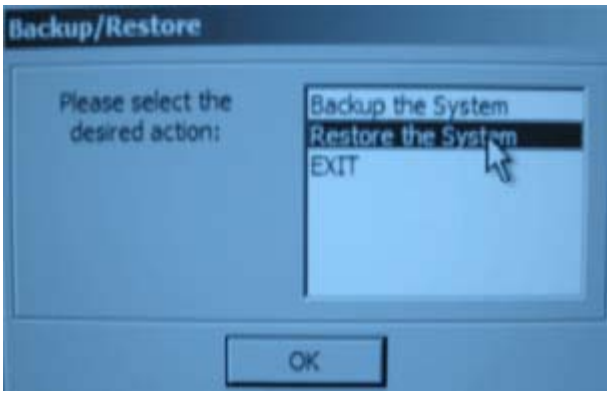

Fig. 16: Restoring the system

16. Click <Restore the System> and <OK>.
    - ➪ The DVD drive opens after about 3 minutes.
    - ➪ The Backup/Restore window appears.

17. Remove the “COBR VS11A” CD and insert the correct “Backup” DVD -R into the drive and click <OK>

    ➪ The restore from the backup DVD starts and takes about 20 minutes.

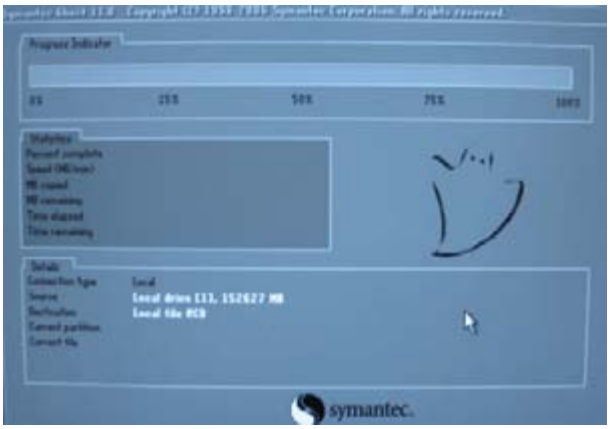

Fig. 17: Ghost progress

    ➪ After the restore, a message appears that the restore is finished.

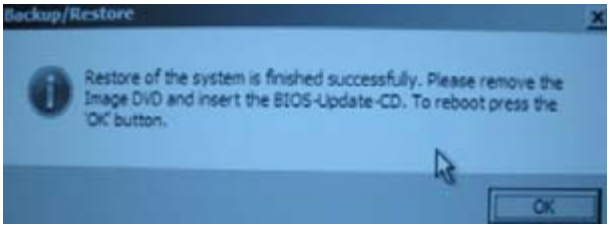
Backup/Restore
Restore of the system is finished successfully. Please remove the Image DVD and insert the BIOS-Update-CD. To reboot press the 'OK' button.
OK

Fig. 18: Insert Bios CD

18. As soon the restore is finished, remove the backup DVD, insert the “BIOS VC01A” CD and click <OK>.

    ➪ The system boots from the ”BIOS VC01A” CD.

    ➪ Soon thereafter, the message box **“HIPPA installed”** appears and the system is booted up.

    ➪ The DVD drive opens.

19. Remove the “BIOS VC01A CD” from the DVD drive.

    ➪ During the system boot, some scripts are executed.

NOTE	**If a message box “Restart System” appears, ignore this message.**

    ➪ Wait until the system boot is finished and the system is ready for operation.

    ➪ If necessary, restore the relevant backup packages. See section “Incremental Restore”.

Incremental restore

NOTE

An incremental restore is only necessary if (software) changes have been made since the last system backup.

NOTE

Be aware that an incremental restore does not include the following settings:

- **Software updates (bug fix)**
- **Printer configuration**
- **Country specific settings (e. g. keyboard, time zone)**

1. Insert the backup CD into the DVD drive.
2. In the Service menu, click <Backup & Restore>.
3. Under “Command” select “Restore” and select “(-R-) CD-R” under “Drives”.

SW-Settings 02

1. Under “Archive”, select the correct (newest) backup file of “SW-Settings 02”
2. Highlight all the files in “Groups” (press the “Shift” key and select the first and last entry of groups).
3. Click <Go>.

ASPIA Settings

1. Under “Archive”, select the correct backup file of the “ASPIA Settings”
2. Highlight all the files in "Groups”.
3. Click <Go>.

3D Settings

1. Option for Orbic: Under “Archive”, select the correct backup file of 3D Reconstruction settings.
2. Click <Go>.

Exam Set

1. Under “Archive”, select the correct backup file of “Exam Sets”.
2. Highlight “Filter_Files” and “User Defined_ExamSets”.

NOTE	**DO NOT highlight (select and restore) the "Default_Exam_Set"!**

3. Click <Go>
   ➪ The "Exam sets" window is displayed.
4. Select all exam sets in the window "ExamSets in backup package" and click <Import> to load the exam sets into the window "Installed ExamSets".
5. Click <Go>

Security-Settings

1. Under "Archive", select the correct backup file of "Security Settings".
2. Click <Go>.
   ➪ Now the user names and passwords stored in the security settings are valid again.
   ➪ Next time, log in with the user name/password obtained from the HIPAA administrator.

Main system

NOTE	**The main system parameters are obtained at the main system D1 board and are not part of the recovery procedure.**

Activating the restored values

1. Remove the backup CD from the DVD drive.
2. Restart the system via the windows menu bar, click <Start>-<Shut Down>, select <Restart> and click <OK>.
   ➪ After restart, the system is ready for operation.

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